C.3

Facility name: LENZ Oil Company

Location: LEMONT, Illinois / DuPage County

EPA Region: V

Person(s) in charge of the facility: Charles Russell

Name of Reviewer: KENNETH PAGE Date: 2nd October 1987

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Over the past 20 years this facility has been used as an oil and solvent storage / transfer operation. Soil has been severly contaminated by oil and solvent waste in the unlined storage containers and the areas where the surface impoundments were located. Drums containing wastes were deteriorated badly. Preliminary results indicate that the groundwater beneath the site is contaminated and may pose a threat to neighboring private wells and possibly to the Des Plaines River

Scores: S_M = 42.33 (S_{gw} = 73.08 S_{sw} = 4.78 S_a = NS)

S_{FE} = NS

S_{DC} = NS

NS = NOT SCORED

FIGURE 1
HRS COVER SHEET

QA
Robert E. Gerstein
10/19/87

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max Score	Ref (Section)
1 Observed Release	0 45	1	45	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2		6	
Net Precipitation	0 1 2 3	1		3	
Permeability of the Unsaturated Zone	0 1 2 3	1		3	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
3 Containment	0 1 2 3	1		3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					3.5
Ground Water Use	0 1 2 (3)	3	9	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 (40)	1	40	40	
Total Targets Score			49	49	
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			41895	57 330	
7 Divide line 6 by 57 330 and multiply by 100			S_gw = 73.08		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

QA
Robert E. Benteen
10/9/87

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0	45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.						
2 Route Characteristics						4.2
Facility Slope and Intervening Terrain	(0) 1 2 3		1	0	3	
1-yr. 24-hr. Rainfall	0 1 (2) 3		1	2	3	
Distance to Nearest Surface Water	0 1 (2) 3		2	4	6	
Physical State	0 1 2 (3)		1	3	3	
Total Route Characteristics Score				9	15	
3 Containment	0 1 2 (3)		1	3	3	4.3
4 Waste Characteristics						4.4
Toxicity/Persistence	0 3 6 9 12 15 (18)		1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8		1	1	8	
Total Waste Characteristics Score				19	26	
5 Targets						4.5
Surface Water Use	0 1 (2) 3		3	6	9	
Distance to a Sensitive Environment	(0) 1 2 3		2	0	6	
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40		1	0	40	
Total Targets Score				6	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				3078	54 350	
7 Divide line 6 by 64 350 and multiply by 100				S_{sw} = 4.78		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

QA
Robert E. Hamilton
10/7/87

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
[1] Observed Release	0 --- 45	1		45	5.1
Date and Location:					
Sampling Protocol:					
If line [1] is 0, the S_a = 0. Enter on line [5]. If line [1] is 45, then proceed to line [2].					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
[4] Multiply [1] x [2] x [3]				35,100	
[5] Divide line [4] by 35,100 and multiply by 100		S_a =			

FIGURE 9
AIR ROUTE WORK SHEET

Scale not scored
Robert E Denton
10/9/87

Facility name: LENZ Oil Company

Location: LEMONT, Illinois / Du Page County

EPA Region: V

Person(s) in charge of the facility: Charles Russell

Name of Reviewer: KENNETH PAGE Date: 2nd October 1987

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Over the past 20 years this facility has been used as an oil and solvent storage / transfer operation. Soil has been severly contaminated by oil and solvent waste in the unlined storage containers and the areas where the surface impoundments were located. Drums containing wastes were deteriorated badly. Preliminary results indicate that the groundwater beneath the site is contaminated and may pose a threat to neighboring private wells and possibly to the Des Plaines River

Scores: S_M = 42.33 (S_{gw} = 73.08 S_{sw} = 9.78 S_a = NS)

S_{FE} = NS

S_{DC} = NS

NS = NOT SCORED

FIGURE 1
HRS COVER SHEET

QA
Robert E. Greaton
10/9/87

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max Score	Ref (Section)
1 Observed Release	0 45	1	45	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2		6	
Net Precipitation	0 1 2 3	1		3	
Permeability of the Unsaturated Zone	0 1 2 3	1		3	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
3 Containment	0 1 2 3	1		3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					3.5
Ground Water Use	0 1 2 (3)	3	9	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 (40)	1	40	40	
Total Targets Score			49	49	
6 If line 1 is 45, multiply 1 x 4 x 5			41895	57 330	
If line 1 is 0, multiply 2 x 3 x 4 x 5					
7 Divide line 6 by 57 330 and multiply by 100			S_gw = 73.08		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

QA
Robert E. Benton
10/9/87

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	
Distance to Nearest Surface Water	0 1 (2) 3	2	4	6	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			9	15	
3 Containment	0 1 2 (3)	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					4.5
Surface Water Use	0 1 (2) 3	3	6	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			6	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			3078	54 350	
7 Divide line 6 by 64 350 and multiply by 100			S_{SW} = 4.78		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Robert E. Hamilton
10/7/87

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
[1] Observed Release	0 45	1		45	5.1
Date and Location:					
Sampling Protocol:					
If line [1] is 0, the S_a = 0. Enter on line [5]. If line [1] is 45, then proceed to line [2].					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
[4] Multiply [1] x [2] x [3]				35,100	
[5] Divide line [4] by 35,100 and multiply by 100		S_a =			

FIGURE 9
AIR ROUTE WORK SHEET

Leaks not scored
Robert E. Denton
10/9/87

	S	S^2
Groundwater Route Score (S_{gw})	73.08	5340.6864
Surface Water Route Score (S_{sw})	4.78	22.8484
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		5363.5348
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		73.24
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		42.33

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Robert E. Hunter
10/7/87

Fire and Explosion Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref (Section)	
1 Containment	1 3	1		3	7.1	
2 Waste Characteristics					7.2	
Direct Evidence	0 3	1		3		
Ignitability	0 1 2 3	1		3		
Reactivity	0 1 2 3	1		3		
Incompatibility	0 1 2 3	1		3		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
3 Targets					7.3	
Distance to Nearest Population	0 1 2 3 4 5	1		5		
Distance to Nearest Building	0 1 2 3	1		3		
Distance to Sensitive Environment	0 1 2 3	1		3		
Land Use	0 1 2 3	1		3		
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5		
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5		
Total Targets Score				24		
4 Multiply 1 x 2 x 3				1 440		
5 Divide line 4 by 1 440 and multiply by 100		SFE =				

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Not stored
Robert E. Hentein
10/9/87

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Incident	0 45	1		45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 3	1		3	8.2
3 Containment	0 15	1		15	8.3
4 Waste Characteristics Toxicity	0 1 2 3	5		15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 5	4		20	
Distance to a Critical Habitat	0 1 2 3	4		12	
Total Targets Score				32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				21 600	
7 Divide line 6 by 21 600 and multiply by 100		Sgc =			

FIGURE 12
DIRECT CONTACT WORK SHEET

Approved
Robert E. Gerstein
10/9/87

October 29, 1985

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible, summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and attach a copy of the relevant page(s) for ease in review.

FACILITY NAME: LENZ OIL COMPANY

LOCATION: LEMONT, Illinois / DuPage County

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

1,1-Dichloroethane
C1,2-Dichloroethene
Toluene
Acetone

Justification to identify this facility as source of contamination:
Groundwater monitoring results of wells G105D(L105D) Part "B" and G101L Part "A" [G101L is the upgradient and G105D is the downgradient]

[Reference no.1, Reference no. 7, Reference no.16, page 3, Reference no. 11]

[reference page 21 for summary of Laboratory analysis]

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern Assigned Value _____

Name/description of aquifer(s) of concern:
Twelve feet of alluvial fill over fractured dolomitic limestone aquifer of Silurian age.
[Reference no.20] [Ref. 2]
[Reference no.25, Appendix B and C] [Reference no. 15, and no. 22]

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Depth from the ground surface to the lowest point of waste disposal/storage/verified contamination:

GA Robert E. Newton 10/9/87

OBSERVED RELEASE

(Page 2A)

1. G108 or G101L (Part A) - All compounds were below the detection limits except for; Hexane at 33ppb and Methylcyclopentane at 44ppb.

2. G112 or G105D IPart B)
   200 ppb of 1,1-Dichloroethane
   460 ppb of C-1,2-Dichloroethene
  1000 ppb of Toluene
 32000 ppb Acetone
 13700 ppb of 2-Butanone

Robert E. Hester
10/9/87

Net Precipitation Assigned Value _____

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone Assigned Value _____

Soil type in unsaturated zone:

Permeability associated with soil type:

Physical State Assigned Value _____

Physical state of substances at time of disposal (or at present time for generated gases):

* * *

Robert E. Gerber
10/19/87

3. CONTAINMENT

Containment — Assigned Value _____

Method(s) of waste or leachate containment evaluated:

Method with highest value:

4. WASTE CHARACTERISTICS

Toxicity and Persistence — Assigned Value 18

Compound(s) evaluated:
Toluene = 9 [Reference no. 1, Part "B"]
Tox=2, Per=1
Lead = 18 [Reference no. 23
Tox=3, Per=3
1,1,1-Trichloroethane = 12 [Reference no. 1, part "C"]
Tox=2, Per=2
[Reference Page 4A for summary of Laboratory analysis]
Compound with highest matrix value:
Lead [Reference no. 23]
[Reference no. 6]
[Reference no. 24]

Hazardous Waste Quantity — Assigned Value 1

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate if quantity is above maximum):
UnKnown Waste Quantity

Basis of estimating and/or computing waste quantity:
Because contaminants have been detected in the groundwater at the site.
[References no. 1, no. 7, no. 11]

* * *

Robert E. Gerdes
10/9/87

WASTE CHARACTERISTICS

Toxicity and Persistence

1. Toluene at 1000 ppb in reference no 1, part B

2. Lead (Reference no. 23)

Sample no. X308 - lead at 150 ppm
X402 comp - lead at 315 ppm
X202 - lead at 280 ppm
X2D2 - lead at 370 ppm
X480 - lead at 550 ppm
X422 - lead at 290 ppm
X437 - lead at 113 ppm
X324 - lead at 160 ppm
X325 - lead at 685 ppm
X326 - lead at 300 ppm

3. 1,1,1-Trichloroethane at 900 ppm in reference no. 1, part C

RA
Robert E. Glenstein
10/9/87

5. TARGETS

Ground Water Use — Assigned Value 3

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:
The aquifer of concern is used for Drinking.
There is no alternative water supply available.
[Reference no. 2, Reference no. 21]

Distance to Nearest Well/Population Served — Assigned Value 40

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:
The nearest well drawing from the aquifer of concern is east, adjacent to the site on the Corwin Lenz property.
[Reference no. 20, Reference no. 9, Reference no. 22-page 5]

Distance to above well or building: — Matrix Value 4

100 feet
[Reference no. 9]

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:
Rosewood Trace Subdivision: 2-water supply wells, 161 feet and 299 feet, the shallow well is piped to the deep well, there, both are blended and distributed to the subdivision.
[Reference no. 15]
Tri-STATE Village: 2-water supply wells, 306 feet and 330 feet
[Reference no. 15]

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):
No irrigation wells drawing fawn the aquifer of concern
[Reference no. 19]

Total population served by ground water within a 3-mile radius:
1. Rosewood Trace Subdivision: 1550 services x 3.8 persons = 5890 persons Matrix Value 5 — 11,335.4 persons
2. Tri-State Village: 180 services x 3.8 persons = 684 persons
3. Wells on record with the state (Illinois) Water Survey: 189 wells x 3.8 persons = 718.2 persons [Reference no. 2]
4. The Hinswood is cross-connected with the Rosewood Trace, per the DuPage Co Water Superintendent, the Rosewood Trace has supplemented the Hinswood several times in the last month, pumping occurred on the average of 4-6 h. 1064 services x 3.8 persons = 4043.2 persons 5 [Reference no. 15 and Reference no. 17]

QA Robert E Hunter 10/9/87

SURFACE WATER ROUTE

1. OBSERVED RELEASE Assigned Value 0

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Justification to identify this facility as source of contamination:

* * *

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain Assigned Value 0

Average slope of facility in percent:
5 feet/600 feet x 100% = .83%
[Reference no. 10]

Name/description of nearest downslope surface water:
Des Plaines River
[Reference no. 10]

Average slope of terrain between facility and above-cited surface water body in percent:
15 feet/2500 feet x 100 = < 1%
[Reference no. 10]

Is the facility located either totally or partially in surface water?
The facility is not located totally or partially in surface water
[Reference no. 10]

QA Robert E. Goralem 10/9/87

Is the facility completely surrounded by areas of higher elevation?
The facility is not completely surrounded by areas of higher elevation
[Reference no. 10]

1-Year 24-Hour Rainfall in Inches — Assigned Value 2

2.5 inches
[Reference no. 3]

Distance to Nearest Downslope Surface Water — Assigned Value 2

2500 feet
[Reference no. 9]

Physical State of Waste — Assigned Value 3

Liquid
[Reference no. 4]

* * *

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment present: Assigned Value 3

Soil Contamination [Reference no. 5]

[Reference page 7A for summary of Soil Analysis]
Method with highest value:
Soil Contamination [Reference no. 5]

QA
Robert E. Gerstein
10/7/87

CONTAINMENT
(reference no. 5)

Monitoring Point	Compounds
A-1	13 ppb of 1,1-Dichloroethane
	140 ppb of 1,1,1-Trichloroethane
	172 ppb of Tetrachloroethene
A-2	7 ppb of 1,1,1-Trichloroethane
	5 ppb of Trichloroethene
A-3	200 ppb of Acetone
	7 ppb of Benzene
	12 ppb of Ethylbenzene
A-4	160 ppb of Acetone
	80 ppb of Toluene
B-4	250 ppb of Acetone
	7 ppb of 1,1-DIchloroethane
	17 ppb of Trans-1,2-Dichloroethene
	8 ppb of 1,1,1-Trichloroethane
	25 ppb of Benzene
	14 ppb of Toluene
A-5	1100 ppb of Acetone
	22 ppb of Toluene
B-3	61.9 ppm of Barium
	31.0 ppm of lead
	103 ppm of Zinc
	71 ppm of Acetone
C-1	370 ppb of Acetone
	200 ppb of Ethylbenzene
	370 ppb of Total Xylenes
C-2	26,000 ppb of Toluene
	73,000 ppb of Ethylbenzene
	280,000 ppb of Total Xylenes
C-3	28,000 ppb of Acetone
	160,000 ppb of Toluene
	360,000 ppb of total Xylenes
C-4	48,000 ppb of Toluene
	22,000 ppb of Ethylbenzene
	74,000 ppb of total Xylenes
	12,000 ppb of 2-Methylnaphthalene

Robert E Gerstein
10/9/87

Monitoring Point	Compounds
C-5	40,000 ppb of Acetone
	68,000 ppb of 1,1-Dichloroethane
	80,000 ppb of Trans-1,2-Dichloroethene
	22,100 ppb of 1,1,1-Trichloroethane
	15,300 ppb of Tetrachloroethene
	890,000 ppb of Toluene
	520,000 ppb of Ethylbenzene
	2,000,000 ppb of total Xylenes
	34,000 ppb of 1-2-Dichlorobenzene
	30,000 ppb Napthalene
	65,000 ppb of 2-Methylnapthalene
D-1	210 ppb of Chloroethane
	120 ppb of Acetone
	675 ppb of 1,1-Dichloroethane
	1,010 ppb of Benzene
	2,100 ppb of Toluene
	1,000 ppb of total Xylenes
D-2	120,000 ppb of Toluene
	64,000 ppb of Ethylbenzene
	200,000 ppb of total Xylenes
	12,000 ppb of 2-Methylnapthalene

Robert E. Benton
10/9/87

4. WASTE CHARACTERISTICS

Toxicity and Persistence — Assigned Value 18

Compound(s) evaluated
Toluene = 9 [Reference no. 1, part "B"]
Tox=2, Per=1
Lead = 18 [Reference no. 23]
Tox=3, Per=3
1,1,1-Trichloroethane = 12 [Reference no. 1, part "C"]
Tox=2, Per=2
[Reference page 7A for summary of Laboratory analysis]
Compound with highest Matrix Value:
Lead [Reference no. 23]
[Reference no. 6]

Hazardous Waste Quantity — Assigned Value 1

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):
Unknown waste Quantity

Basis of estimating and/or computing waste quantity:
Because contaminants have been detected in the groundwater and the soils at the site. [References no. 1, 5, 7, 11, and 23]

5. TARGETS

Surface Water Use — Assigned Value 2

Use(s) of surface water within 3 miles downstream of the hazardous substance:
No surface water intakes on the Des Plaines River [Reference no. 12]
River (Des Plaines) used for fishing [Reference no. 14]

RT
Robert E Gunstem
10/9/87

WASTE CHARACTERISTICS

Toxicity and Persistence

1. Toluene at 1,000 ppb in reference no. 1, part B

2. Lead (reference no. 23)
   Sample no. X308 - lead at 150 ppm
   X402 comp - lead at 315 ppm
   X202 - lead at 280 ppm
   X2D2 - lead at 370 ppm
   X480 - lead at 550 ppm
   X422 - lead at 290 ppm
   X437 - lead at 113 ppm
   X324 - lead at 160 ppm
   X325 - lead at 685 ppm
   X326 - lead at 300 pm

3. 1,1,1-Trichloroethane at 900 ppm in reference no. 1, Part C.

PA
Robert E. Deuchler
10/9/87

Is there tidal influence?
NO.
[Reference no. 10]

Distance to a Sensitive Environment Assigned Value 0

Distance to a 5-acre (minimum) coastal wetland, if 2 miles or less:
No Costal Wetland [Reference no. 10]

Distance to a 5-acre (minimum) fresh-water wetland, if 1 mile or less:
No Fresh-water wetland within 1mile of the facility [Reference no. 10]

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:
NO Critical habitat of an endangered species or natural wildlife Refuge [Reference no. 18]

Population Served by Surface Water Assigned Value 0

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:
No Surface water intakes on the Des Plaines River [Reference no. 12]

QA
Robert E. Gleckler
10/9/87

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Total population served: Total Population 0

Name/description of nearest of above water bodies:

Distance to above-cited intakes, measured in stream miles. Distance 0

RA
Robert E. Gerstein
10/9/87

AIR ROUTE [NOT SCORED]

1. OBSERVED RELEASE Assigned Value _____

Contaminants detected:

Date and location of detection of contaminants:

Methods used to detect the contaminants:

Justification to identify this facility as source of contamination:

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility Assigned Value _____

Most reactive compound:

Most incompatible pair of compounds:

Route Not scored
Robert E. Gentlein
1/7/87

Toxicity Assigned Value _____

Most toxic compound:

Hazardous Waste Quantity Assigned Value _____

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3. TARGETS

Population Within 4-Mile Radius Assigned Value _____

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Distance to a Sensitive Environment Assigned Value _____

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Route Not scored
Robert E. Gerstein
10/9/87

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use Assigned Value _____

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Score Not Scored
Robert E. Benton
10/9/87

FIRE AND EXPLOSION
(Not scored)

1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

* * *

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

* * *

Route Not Scored
Robert E. Gerstein
10/9/87

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Route Not Scored
Robert E Reuter
10/7/87

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

Not scored
Robert E. Sexton
10/7/87

DIRECT CONTACT (not scored)

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

* * *

3 CONTAINMENT

Type of containment, if applicable:

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Compound with highest score:

* * *

Not Scored
Robert E. Hentzen
10/9/87

5 TARGETS

Population within one-mile radius

Distance to critical habitat (of endangered species)

Not cleared
Robert E. Henderson
10/19/87